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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/652,495	09/02/2003	Masayuki Kumakura	116882 2708		
25944 7	7590 02/23/2005		EXAMINER		
	RRIDGE, PLC	PAREKH, NITIN			
P.O. BOX 199	— -	ART UNIT	PAPER NUMBER		
ALEXANDRIA, VA 22320			2811		

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

					14.14			
		Application	ı No.	Applicant(s)				
		10/652,495	; '	KUMAKURA, MASAYUKI				
Office A ction S ummary		Examiner		Art Unit				
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Period for	The MAILING DATE of this communication	appears on the o	cover sheet with the c	orrespondence ad	dress			
A SH THE - Exte after - If the - If NC - Failt Any	MAILING DATE OF THIS COMMUNICATION OF THE WAY OF THE WA	ON. FR 1.136(a). In no event in. a reply within the statuto eriod will apply and will a statute, cause the applica	t, however, may a reply be time ory minimum of thirty (30) days expire SIX (6) MONTHS from ation to become ABANDONEI	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).	y. ommunication.			
Status				·				
1)[\]	Responsive to communication(s) filed on 2	24 January 2005.						
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3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims			•				
5)□	<u>- </u>							
Applicat	ion Papers							
9)[The specification is objected to by the Exar	miner.						
10)⊠	The drawing(s) filed on is/are: a)							
•	Applicant may not request that any objection to	- ·	•					
11)	Repl acement drawing sheet(s) incuting the oc The oath or declaration is objected to by th		- · · · · •		• •			
Priority (under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Busee the attached detailed Office action for a	nents have been nents have been priority documen ireau (PCT Rule	received. received in Application ts have been receive 17.2(a)).	on No d in this National :	Stage			
Attachmen	t(s)							
2) 🔲 Notic 3) 🔯 Infori	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SE or No(s)/Mail Date 4.	5/08)) Interview Summary (Paper No(s)/Mail Dat) Notice of Informal Pa) Other:	(PTO-413) te atent Application (PTO	P-152)			

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DETAILED ACTION

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Election/Restriction

1. Applicant's election with traverse of Group I, claims 1-8 in Paper No. 3 is acknowledged. The traversal is on the ground(s) that in the requirement for an election, Groups I and II differ only in a semiconductor device and method for making the same. Requiring an election based on the above-noted differences would appear to be unwarrant since the fields of search appear to be almost identical. This is not found persuasive because referring to the restriction requirement set forth in the Office Action paper no.2, it clearly shows that the alternative method proposed by the examiner would be distinct from the process claimed. Additionally, the search is not coextensive as evidenced by the different fields of search for the process and product as cited in the previous restriction requirement. Furthermore, Applicant has not provided a convincing argument that the materially different processes would not be suitable in producing the claimed device.

The requirement is still deemed proper and is therefore made FINAL.

Drawings

2. Figures 5 and 6 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct

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any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over admitted prior art (APA) in view of Matsuura et al. (US Pat. 2001/0015484).

Regarding claims 1-4, the APA discloses a hard disk device comprising an insulating sheet (110 and 113 respectively in Fig. 5), the insulating sheet further comprising:

- a buffer layer (121 in Fig. 5) having buffering attributes, the buffer layer being formed of an urethane foam (see prior art: comparative example 2 in Table 2, page 8)
- an adhesive layer (122 in Fig. 5), and

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- an insulating resin film (123 in Fig. 5) formed from polyethylene terephthalate/PET (see prior art: comparative example 2 in Table 2, page 8), wherein the buffer layer and the resin film are attached together by the adhesive layer

(Fig. 5 and 6; specification pp. 1, 2, 8 and 9; Table 2).

The APA fails to teach the adhesive layer not being adhesive at normal ambient temperature but exhibiting adhesiveness when heated.

Matsuura et al. teach using a variety of polyester/polyether based heat resistant resin compositions including those without a silicon component (section 0026; 0192; Col. 2-13) to provide improved adhesion/bonding between a variety of substrates/layers (sections 0229 and 0230) where the adhesion/bonding is performed under compression and heat treatment and the temperature of the heat treatment is higher than normal ambient temperature (see sections 0206-0212).

It would have been obvious to a person of ordinary skill in the art at the time invention was made to incorporate the adhesive layer not being adhesive at normal ambient temperature but exhibiting adhesiveness when heated as taught by Matsuura et al. so that the adhesion/bonding, crack resistance and reliability can be improved and moisture absorption can be reduced in the APA's device.

Regarding claim 1, heating the adhesive layer to exhibit adhesiveness, do not distinguish over the APA and Matsuura et al., because only the final product/structure is relevant, not forming the adhesiveness using the "heating", "compressing", "pressurizing and heating" or "softening, curing or melting". Note that a "product by process" claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17 (footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); and In re Marrosi et al., 218 USPQ 289, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that applicant has the burden of proof in such cases, as the above case law makes clear. See also MPEP 706.03(e).

Regarding claims 5-8, the APA and Matsuura et al. teach substantially the entire claimed structure as applied to claims 1-4 above, wherein the APA teaches hard disk device comprising:

- a case (11 in Fig. 5) for housing a hard disk, and
- a printed wiring board (112 in Fig. 5) provided with a circuit for controlling the hard disk.

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Regarding claim 5, heating the adhesive layer to exhibit adhesiveness, do not distinguish over the APA and Matsuura et al., because only the final product/structure is relevant, not forming the adhesiveness using the "heating", "compressing", "pressurizing and heating" or "softening, curing or melting". Note that a "product by process" claim is directed to the product per se, no matter how actually made, In re Hirao, 190 USPQ 15 at 17 (footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); and In re Marrosi et al., 218 USPQ 289, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that applicant has the burden of proof in such cases, as the above case law makes clear. See also MPEP 706.03(e).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Parekh whose telephone number is 571-272-1663. The examiner can normally be reached on 09:00AM-05:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9318.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

NP

02-12-05

NITIN PAREKH

PRIMARY EXAMINER

TECHNOLOGY CENTER 2800